

**Supplemental
Notice of Allowability**

Application No.

10/530,540

Examiner

JOSHUA SMITH

Applicant(s)

PETRESCU ET AL.

Art Unit

2477

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 10/02/2009.
2. ☒ The allowed claim(s) is/are 1-7, 12, 13 and 15-20; respectively renumbered 1-15.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>03/09/2010</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Gregory B Sefcheck/
Primary Examiner, Art Unit 2477
3-10-2010

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Steven A. May on 01/11/2010, 01/13/2010, and 03/09/2010.

The application has been amended as follows:

7. (Currently Amended) An Internet Protocol version 6 (IPv6)-based data network that is operable to generate a first stateful IP autoconfiguration message at a mobile node, wherein said message contains an address capable of use for route maintenance to and from said mobile node, the network comprising hosts including one or more of ~~a~~ a first access node, a dynamic host configuration protocol (DHCP) Relay, and a DHCP Server, the network comprising:

a means for receiving ~~a~~ the first stateful IPv6 autoconfiguration message from said mobile node, wherein said message comprises a mobile node IP address capable of use for route maintenance to deliver data to, and receive data from, said mobile node , wherein said means for receiving further receives, from a second access node, a second stateful IPv6 autoconfiguration message that confirms the IP address acquired by said mobile node prior to accessing said second access node, wherein said second access node adds its address to said second message and wherein said DHCP Server

receives and analyses the second stateful IPv6 autoconfiguration message to determine whether said IP address therein is consistent with a set of addresses maintained by the DHCP Server in association with the mobile node; and

a means for analyzing said first stateful IPv6 autoconfiguration message to determine a route to one or more of deliver data to, and receive data from, said mobile node; and

a means for triggering transmission of one or more route update message from said first access node and said DHCP Server to a number of network elements between said first access node and a said DHCP server in the IPv6-based data network, wherein said one or more route update messages from said first access node and said DHCP server are triggered substantially simultaneously and wherein said means for triggering, in response to said determination of whether said IP address in the second stateful IPv6 autoconfiguration message is consistent with a set of addresses maintained by the DHCP Server in association with the mobile node, triggers one or more route update messages to one or more of said first access node and said second access node to delete obsolete address information used for route maintenance to and from said mobile node.

8-10. (Canceled)

12. (Currently Amended) The network according to Claim ~~[[9]]~~ 7, wherein one or more of said stateful IPv6 autoconfiguration messages is an IPv6 stateful autoconfiguration 'CONFIRM' message.

13. (Currently Amended) The network according to Claim ~~[[9]]~~ 7, further characterised by a memory element, operably coupled to said means for analyzing, containing a router table for storing route maintenance information extracted from said IP message.

15. (Currently Amended) The network according to Claim ~~[[8]]~~ 7, wherein one or more of said first access node and said second access node are Access Routers collocated with DHCPv6 Relay functions.

16. (Currently Amended) The network according to Claim ~~[[8]]~~ 7, wherein the network includes a number of routers located one or more of between said first access node and said DHCP Server and between said second access node and said DHCP Server in a substantially tree-type topology.

17. (Currently Amended) The network according to Claim ~~[[8]]~~ 7, wherein a communication link one or more of between said mobile node and said first access node and between said mobile node and said second access node is a wireless access media communication link to facilitate a wireless link.

19. (Currently Amended) A non-transitory storage medium storing processor-implementable instructions to carry out the method according to Claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSHUA SMITH whose telephone number is 571-270-1826. The examiner can normally be reached on Monday-Friday, 10:30am-7pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chirag Shah can be reached on 571-272-3144. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joshua Smith
/J.S./
Patent Examiner

Application/Control Number: 10/530,540
Art Unit: 2477

Page 6

03-10-2010